

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 1, 5, 11, 13 and 15 and please CANCEL claim 8.in accordance with the following:

1. (currently amended) A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a panel electrode group is arranged, the panel inspection apparatus comprising:

an inspection unit including an inspection electrode, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel; and

a pressurizing mechanism for pressing the inspection electrode against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group,

wherein the pressurizing mechanism includes a pair of pivotally movable pressurizing levers, wherein the pair of pivotally movable pressurizing levers cause the inspection electrode to contact the panel electrode group with a predetermined force, wherein the pressurizing levers move toward the display panel in a first direction that is perpendicular to the one side of the display panel and moves away from the display panel in a second direction that is opposite the first direction, and wherein the inspection electrode is arranged at a position near the panel electrode group where the inspection electrode is visual when the pressurizing levers are separated from the side of the display panel.

2. (previously presented) The panel inspection apparatus according to claim 1, wherein the inspection electrode is inclined toward the display panel by a predetermined angle.

3. (original) The panel inspection apparatus according to claim 1, further comprising:
a positioning device connected to the inspection unit; and

a jig for supporting the positioning device, wherein the positioning device is secured to the jig in correspondence with the panel electrode group.

4. (original) The panel inspection apparatus according to claim 3, wherein the panel electrode group is one of a plurality of panel electrode groups formed in accordance with the dimension of the display panel, the panel electrode groups being spaced from one another by a predetermined pitch, wherein the positioning device is one of a plurality of positioning devices provided in correspondence with the panel electrode groups, the positioning devices being secured to the jig spaced from one another by the predetermined pitch.

5. (currently amended) ~~The panel inspection apparatus according to claim 4,~~ A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a panel electrode group is arranged, the panel inspection apparatus comprising:

an inspection unit including an inspection electrode, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel;

a pressurizing mechanism for pressing the inspection electrode against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group,

wherein the pressurizing mechanism includes a pair of pivotally movable pressurizing levers further comprising: a positioning device connected to the inspection unit; and

a jig for supporting the positioning device, wherein the positioning device is secured to the jig in correspondence with the panel electrode group;

wherein the panel electrode group is one of a plurality of panel electrode groups formed in accordance with the dimension of the display panel, the panel electrode groups being spaced from one another by a predetermined pitch, wherein the positioning device is one of a plurality of positioning devices provided in correspondence with the panel electrode groups, the positioning devices being secured to the jig spaced from one another by the predetermined pitch; and

wherein the jig includes a surplus positioning device separated from the positioning devices corresponding to the panel electrode groups.

6. (original) The panel inspection apparatus according to claim 3, wherein the display panel is either one of a first display panel having a first size and including a plurality of first panel electrode groups or a second display panel having a second size differing from the first size and including a plurality of second panel electrode groups, wherein the jig is either one of a first jig adapted to the first display panel or a second jig adapted to the second display panel, the first jig including a plurality of first positioning devices prearranged at positions corresponding to the

plurality of first panel electrode groups, and the second jig including a plurality of second positioning devices prearranged at positions corresponding to the second panel electrode groups.

7. (original) The panel inspection apparatus according to claim 3, further comprising:
an adjusting element arranged on the positioning device, wherein the adjusting element finely adjusts the position of the inspection unit by moving the inspection unit along the side of the display panel.

8. (canceled).

9. (original) The panel inspection apparatus according to claim 1, further comprising:
a drive circuit for providing the display panel with an inspection signal;
a relay printed circuit connected to the inspection electrode to electrically connect the inspection electrode and the drive circuit; and
a connector connecting the relay printed circuit and the drive circuit, wherein the connector disconnects the relay printed circuit and the drive circuit when the inspection electrode is separated from the panel electrode group.

10. (original) The panel inspection apparatus according to claim 9, wherein a passage enabling passage of the relay printed circuit is formed on one of the two pressurizing levers.

11. (currently amended) The panel inspection apparatus according to claim 10, A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a panel electrode group is arranged, the panel inspection apparatus comprising:

an inspection unit including an inspection electrode, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel;

a pressurizing mechanism for pressing the inspection electrode against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group, wherein the pressurizing mechanism includes a pair of pivotally movable pressurizing levers further comprising:

a drive circuit for providing the display panel with an inspection signal;

a relay printed circuit connected to the inspection electrode to electrically connect the

inspection electrode and the drive circuit; and

a connector connecting the relay printed circuit and the drive circuit, wherein the connector disconnects the relay printed circuit and the drive circuit when the inspection electrode is separated from the panel electrode group, wherein a passage enabling passage of the relay printed circuit is formed on one of the two pressurizing levers, wherein the two pressurizing levers includes an upper pressurizing lever and a lower pressurizing lever pivoted to apply force to an upper surface and a lower surface of the inspection electrode, and wherein the inspection unit further includes a pivoting amount adjusting element for adjusting a pivoting amount of the upper pressurizing lever.

12. (original) The panel inspection apparatus according to claim 11, wherein the pivoting amount adjusting element adjusts the pivoting amount of the upper pressurizing lever so that a distal end of the inspection electrode contacts the panel electrode group.

13. (currently amended) ~~The panel inspection apparatus according to claim 10 further comprising:~~ A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a panel electrode group is arranged, the panel inspection apparatus comprising:

an inspection unit including an inspection electrode, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel;

a pressurizing mechanism for pressing the inspection electrode against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group, wherein the pressurizing mechanism includes a pair of pivotally movable pressurizing levers further comprising:

a drive circuit for providing the display panel with an inspection signal;

a relay printed circuit connected to the inspection electrode to electrically connect the inspection electrode and the drive circuit;

a connector connecting the relay printed circuit and the drive circuit, wherein the connector disconnects the relay printed circuit and the drive circuit when the inspection electrode is separated from the panel electrode group, wherein a passage enabling passage of the relay printed circuit is formed on one of the two pressurizing levers, further comprising:

a pivot shaft extending perpendicular to the one side of the display panel; and

a fulcrum block pivotally supported by the pivot shaft and pivotally supporting the two pressurizing levers.

14. (original) The panel inspection apparatus according to claim 13, further comprising:
a pivot restricting element for restricting the pivoting of the fulcrum block when the two pressurizing levers pivot away from the inspection electrode and contact the pivot restricting element.

15. (currently amended) A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a plurality of panel electrode groups are arranged, the panel inspection apparatus comprising:

a plurality of inspection units including inspection electrodes, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel; and

a plurality of pressurizing mechanisms for pressing the inspection electrodes against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group,

wherein the pressurizing mechanisms each include a pair of pivotally movable pressurizing levers, wherein the pair of pivotally movable pressurizing levers cause the inspection electrode to contact the panel electrode group with a predetermined force, wherein the pressurizing levers move toward the display panel in a first direction that is perpendicular to the one side of the display panel and moves away from the display panel in a second direction that is opposite the first direction, and wherein the inspection electrode is arranged at a position near the panel electrode group where the inspection electrode is visual when the pressurizing levers are separated from the side of the display panel.

16. (previously presented) A panel inspection apparatus for inspecting a display panel, wherein the display panel has a side on which a panel electrode group is arranged, the panel inspection apparatus comprising:

an inspection unit including an inspection electrode, wherein the inspection unit causes the inspection electrode to contact the panel electrode group and moves in a direction perpendicular to the side of the display panel;

a pressurizing mechanism for pressing the inspection electrode against the panel electrode group, wherein the pressurizing mechanism moves independently in a direction

perpendicular to the side of the display panel in a state in which the inspection unit is arranged at a position where the inspection electrode contacts the panel electrode group;

a positioning device connected to the inspection unit; and

a jig for supporting the positioning device,

wherein the positioning device is secured to the jig in correspondence with the panel electrode group,

wherein the panel electrode group is one of a plurality of panel electrode groups formed in accordance with the dimension of the display panel, the panel electrode groups being spaced from one another by a predetermined pitch,

wherein the positioning device is one of a plurality of positioning devices provided in correspondence with the panel electrode groups, the positioning devices being secured to the jig spaced from one another by the predetermined pitch, and

wherein the jig includes a surplus positioning device separated from the positioning devices corresponding to the panel electrode groups.